NC/PMC/PD/W-14/2018-19/PG-C1

Date: 11-01-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Formation of Playground and Providing drainage system for disposal of Rain water in and around the playground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**173 min**	Shall not be less than 30 min
2	Final setting time	**290 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.34 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.15 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.81 N/Sq mm** **39.42 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NC/PMC/PD/W-14/2018-19/PG-PCC1

Date: 11-01-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Formation of Playground and Providing drainage system for disposal of Rain water in and around the playground outdoor stadium ward No-14.}

Ref.: Material testing/QC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	95.85	85-100	95 – 100
20mm	49.10	0 -20	30- 70
10mm	30.30	0 -5	10- 35
4.75mm	2.60	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	97.10	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.20	60-95	75-100	85-100	
01.18	62.25	30-70	55-90	75-100	
600. mic	45.95	15-34	35-59	60-79	
300.mic	14.45	5-20	8-30	12-40	
150.mic	8.15	0-10	0-10	0-10	

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NC/PMC/PD/W-14/2018-19/PG-C2

Date: 17-01-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
(Project*: Formation of Playground and Providing drainage system for disposal of Rain water in and around the playground outdoor stadium ward No-14.)
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	176 min	Shall not be less than 30 min
2	Final setting time	261 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.74 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.03 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	28.62 N/Sq mm 39.14 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

Page No. 1/1,

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NCP/MC/PDAW-14/2018-19/PG-CAI

Date: 17-01-2018

1. **TESTING OF COARSE AGGREGATES (20 mm):**
Sub: Testing of Construction Materials
(Project*: Formation of Playground and Providing drainage system for disposal of Rain water in and around the playground outdoor stadium ward No-14)
Ref.: Material testing/AJC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.35	85-100	95 - 100
10 mm	40.80	0 - 20	25 - 55
4.75 mm	4.30	0 - 5	0 - 10

TABLE 1.2 :

Sl. No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.46 %	Not to exceed 25 %
2.	Crushing value	26.81 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/PD/W-14/2018-19/PG-CB1

Date: 30-01-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Formation of Playground and Providing drainage system for disposal of Rain water in and around the playground outdoor stadium ward No-14.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-01-18	30-01-18	07	22500	360	16.00	15.93
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	365	16.22	

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